

## **SURVIAC FINAL REPORT For Technical Area Task 01-10**

### **1.0 Task Title**

JLF Standard Characterization of Foreign Ammunition (SCOFA)

### **2.0 Background**

SCOFA developed as a result of the information needs of organizations involved in using ammunition characterization data as critical input for planning and preparing JLF/LFT&E testing as well as for vulnerability/lethality modeling in support of LFT&E and design.

SCOFA has evolved to include documentation on blue, gray, and red projectile characterization data in a format acceptable for use in vulnerability/lethality analysis codes and characterization data resulting from JLF/LFT&E target testing to better understand behavior for subsequent asset testing.

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**Start Date:** February 8, 2000

**End Date:** September 8, 2002

**Funding:** \$22,239

### **3.0 Task as Defined**

This technical area task consisted of three tasks: Documents Merge, a How to Characterize a Threat Appendix, and Status/Review Report Meeting.

**Documents Merge** involved SURVIAC merging the existing data contained in the SCOFA document/database with the existing Pedigree document. Formatting of the current Pedigree document was maintained. The sponsor and contractor jointly determined the threats detailed in the final merged document. The documented included data collected under the previous SCOFA efforts (SURVIAC TATs 95-26, 97-42, 99-21). The information obtained was reviewed with the government sponsor. Additionally, an attempt was made to fill data voids identified in the previous effort with tests/data collection from existing test programs or new programs.

**A How To Characterize A Threat Appendix** involved writing an appendix describing how to characterize a projectile threat. This data will be delivered to the intelligence agencies to

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14. ABSTRACT SCOFA developed as a result of the information needs of organizations involved in using ammunition characterization data as critical input for planning and preparing JLF/LFT&E testing as well as for vulnerability/lethality modeling in support of LFT&E and design. SCOFA has evolved to include documentation on blue, gray, and red projectile characterization data in a format acceptable for use in vulnerability/lethality analysis codes and characterization data resulting from target testing to better understand behavior for subsequent asset testing.					
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provide them with additional information on the requirements of the S/L community. The appendix primarily describes the type of data required to create a COVART threat input file.

**Threat Handbook Update** involved revising and updating the Threat Handbook and database with the information obtained from the Threat Characterization Data Search and Review and any suggestions and comments from the draft release of the SCOFA Handbook generated and delivered in the previous effort). Upon approval of the draft update, a final version of the database and handbook will be published and distributed to the members of the approved distribution list. The anticipated distribution list will include Government sponsors and the user community.

**Status/Review Report Meeting** involved hosting a Kick-off Meeting and a Final Status Review Meeting/Briefing. The Kick-off Meeting reviewed the previous efforts (SURVIAC TATs 95-26, 97-42 and 99-21) and outlined the proposed efforts of this current task. Several status review meetings were held to obtain sponsor feedback and comments of the task. The Final Status Review Meeting/Briefing summarized this task's efforts.

#### **4.0 Model/Methodology Used or Developed**

The Pedigree/SCOFA Threat Handbook was revised to conform to the Pedigree format under this effort. The Handbook proposes to standardize Survivability/Vulnerability information vital to the JLF community, which includes the modelers, analysts, and range personnel.

#### **5.0 Results of Analysis**

The Pedigree/SCOFA Threat Handbook was updated and delivered to the government sponsor.

#### **6.0 Recommendations and Status**

The results of this task have demonstrated the Pedigree/SCOFA effort to expand the Survivability/Vulnerability information maintained and housed at SURVIAC.

##### **Recommendations:**

- Continue to work with NAIC/NGIC to provide them with specific data requirements to support Pedigree/SCOFA.
- Continue to work with ASC/ENMM and possibly update their Pedigree Handbooks for COVART analysis.
- Determine and address new threats.
- Research, summarize, and document all available test efforts on projectiles currently in handbook.

- Identify and document voids in previous characterization test efforts.
- Perform independent validation of test data, as applicable to V/L codes, and generate standardized threat input data files for COVART and AJEM.
- Update database and handbook; distribute handbook to user community.

**Status:**

- Money for a follow-on effort has not been funded.

**7.0 Deliverables Produced**

Pedigree/SCOFA Threat Handbook  
How To Characterize A Threat Appendix  
Final Status Review Meeting